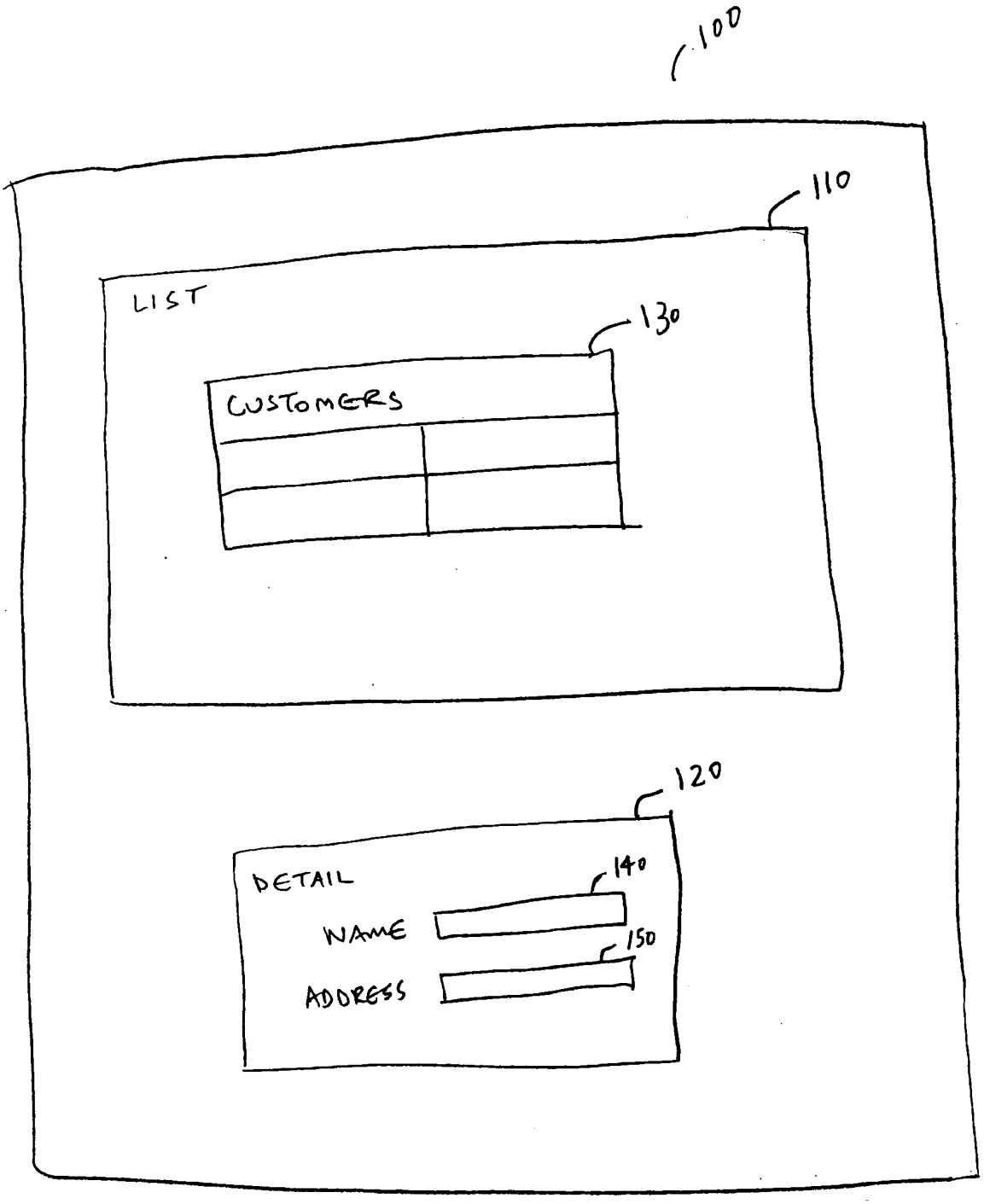

FIG. 1

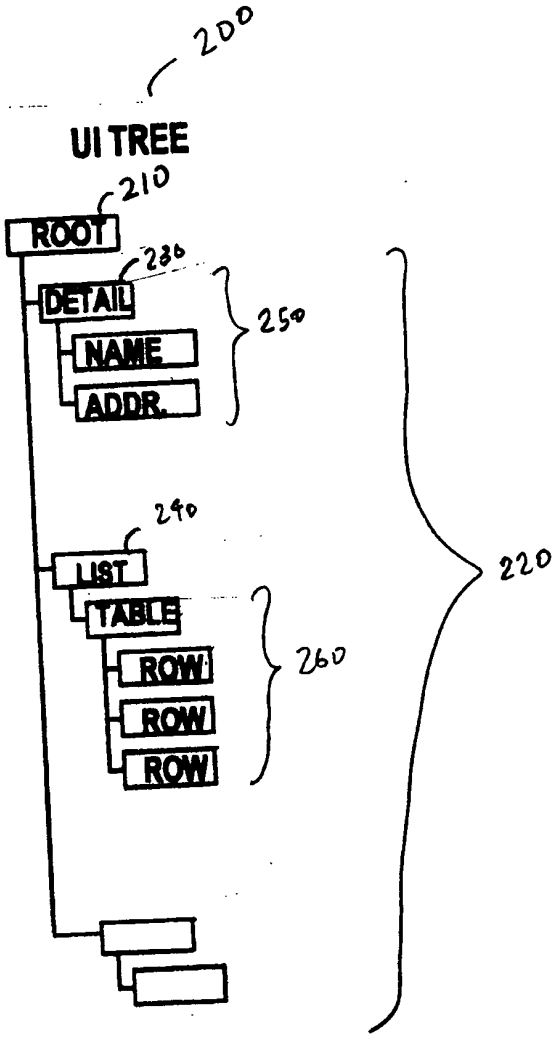
200
UI TREE
210
ROOT
230
DETAIL
250
NAME
ADDR.
240
LIST
TABLE
260
ROW
ROW
ROW
220

FIG. 2

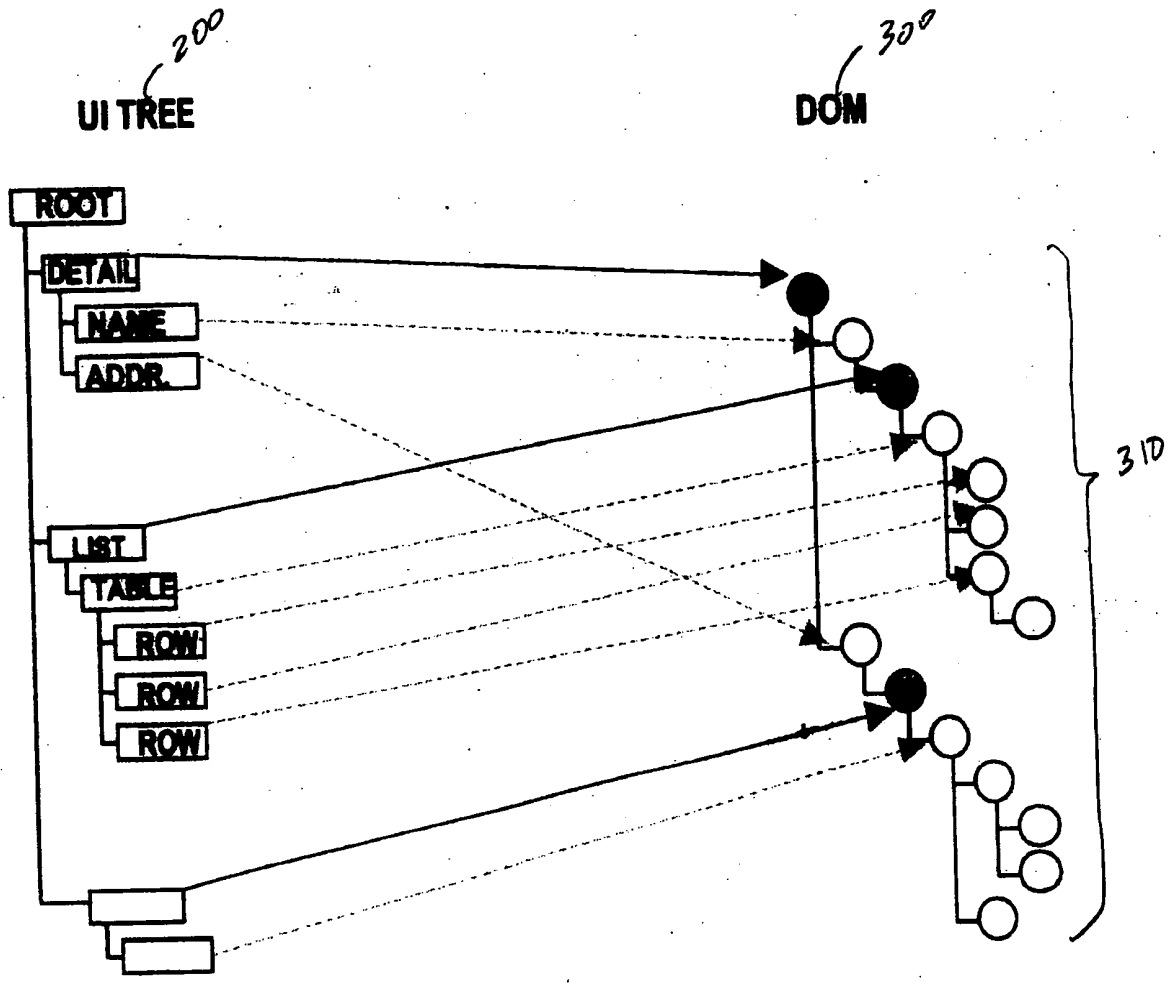
200
300
UI TREE
DOM
ROOT
DETAIL
NAME
ADDR.
LIST
TABLE
ROW
ROW
ROW
310

FIG. 3

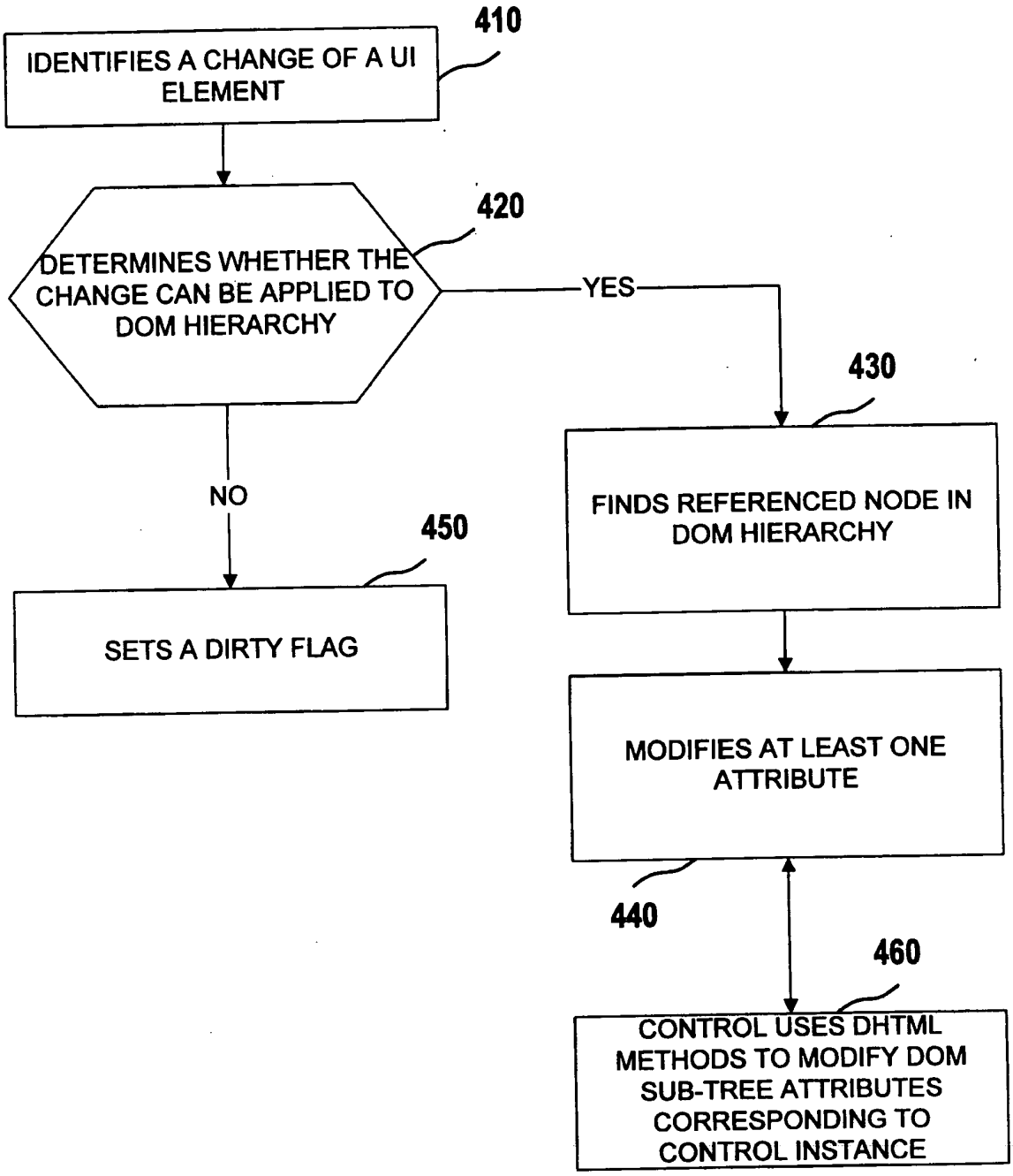
410
IDENTIFIES A CHANGE OF A UI ELEMENT
420
DETERMINES WHETHER THE CHANGE CAN BE APPLIED TO DOM HIERARCHY
YES
NO
430
FINDS REFERENCED NODE IN DOM HIERARCHY
450
SETS A DIRTY FLAG
MODIFIES AT LEAST ONE ATTRIBUTE
440
460
CONTROL USES DHTML METHODS TO MODIFY DOM SUB-TREE ATTRIBUTES CORRESPONDING TO CONTROL INSTANCE
400

FIG. 4

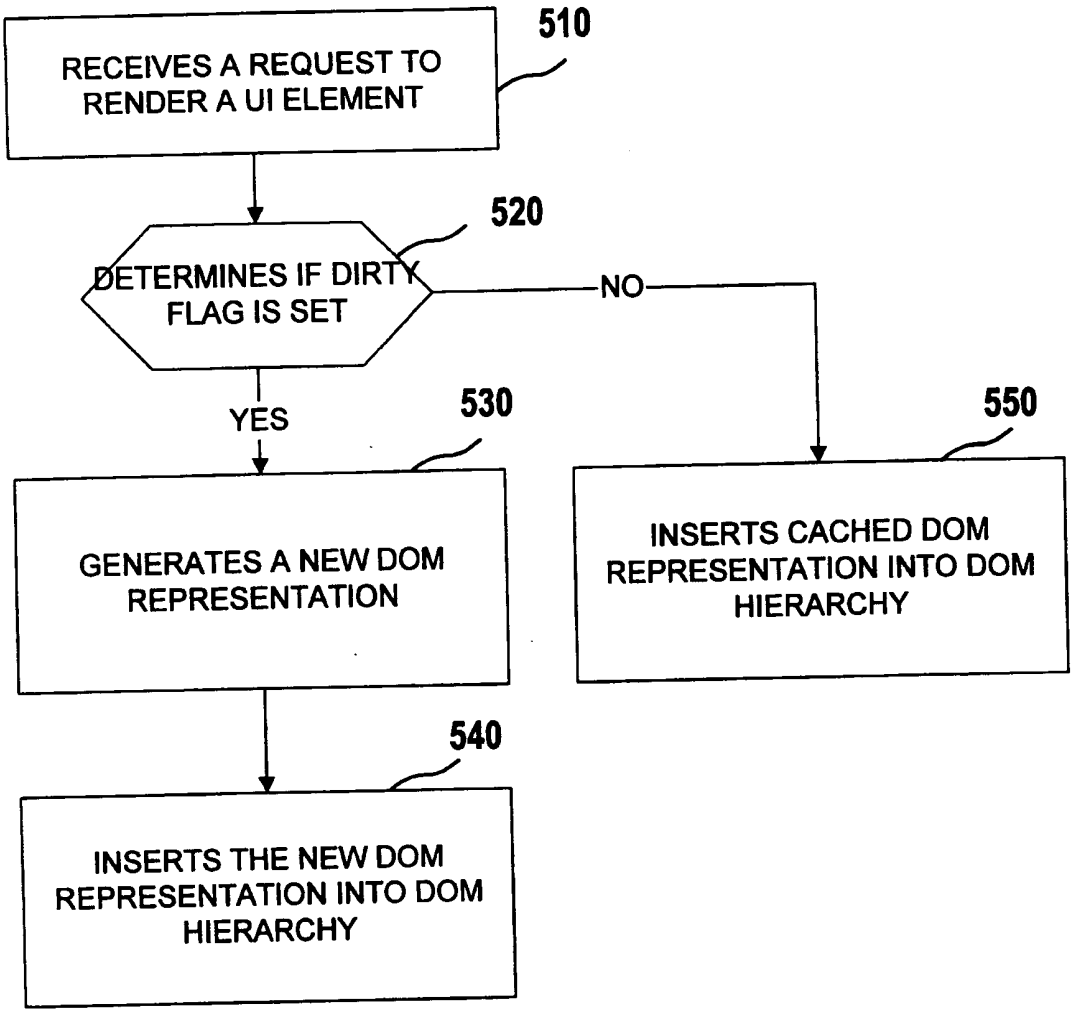
RECEIVES A REQUEST TO RENDER A UI ELEMENT
510
DETERMINES IF DIRTY FLAG IS SET
520
NO
YES
530
550
GENERATES A NEW DOM REPRESENTATION
INSERTS CACHED DOM REPRESENTATION INTO DOM HIERARCHY
540
INSERTS THE NEW DOM REPRESENTATION INTO DOM HIERARCHY
500

FIG. 5